

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2012 Levee Inspection Results****Sutter Maintenance Yard East-West Interceptor**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Sutter Maintenance Yard East-West Interceptor

Waterway			Bank	Unit Miles
Unit No. 01 West Levee			Right	1.75
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/2/2012 - 5/3/2012			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Yard			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard East-West Interceptor

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee						Right	1.75	05/02/2012 05/03/2012	Bob Duffey
LMR No.	Levee Mile		Category	Item	Location * + Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End					Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	WS A Ma		°	°	9
DWR ID: DWR_NA0020_01_s_2012_9									
2			Earthen Levee	Emergency Supplies & Equipment	WS A Ma		°	°	10
DWR ID: DWR_NA0020_01_s_2012_10									
3			Earthen Levee	Flood Preparedness & Training	WS A Ma		°	°	11
DWR ID: DWR_NA0020_01_s_2012_11									
4	0.00	0.13	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.171577 ° -121.760019 °	39.171543 ° -121.758291 °	5
DWR ID: DWR_NA0020_01_s_2012_5									
5	0.00	0.32	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.171577 ° -121.760019 °	39.171481 ° -121.754826 °	7 Y
DWR ID: DWR_NA0020_01_s_2012_7									
6	0.22	0.22	Earthen Levee	Encroachments	LS M Ma	PR : Prunings	39.171470 ° -121.756138 °	39.171470 ° -121.756138 °	1 Y
DWR ID: DWR_NA0020_01_s_2012_1									
7	0.23	0.25	Earthen Levee	Vegetation	CR M En	V6 : Landscaping	39.171418 ° -121.755963 °	39.171408 ° -121.755578 °	2 Y
DWR ID: DWR_NA0020_01_s_2012_2									
8	0.62	0.65	Earthen Levee	Erosion / Bank Caving	WS U Ma	E2 : Schedule repair of erosion site prior to the next inspection.	39.171292 ° -121.748868 °	39.171232 ° -121.748175 °	4 Y
DWR ID: DWR_NA0020_01_s_2012_4									
9	0.88	0.88	Earthen Levee	Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site.	39.171335 ° -121.744039 °	39.171335 ° -121.744039 °	8 Y
DWR ID: DWR_NA0020_01_s_2012_8									
10	1.23	1.24	Earthen Levee	Erosion / Bank Caving	WS M Ma	E1 : Note and monitor erosion site.	39.171380 ° -121.737337 °	39.171380 ° -121.737337 °	3 Y
DWR ID: DWR_NA0020_01_s_2012_3									
11	1.67	1.67	Channels	Erosion / Bank Caving	WS M Ma	Inspector Comments: Sutter Yard needs to repair the channel.	39.171128 ° -121.729235 °	39.171128 ° -121.729235 °	6 Y
DWR ID: DWR_NA0020_01_s_2012_6									

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	05/02/2012 05/03/2012	Bob Duffey

Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.32
Location	Water Side
Category	Earthen Levee
Item	Vegetation

View of the vegetation along the W/S toe.

rduffey_s_20120507_625.jpg



Levee Mile Report Line	6
Start Levee Mile	0.22
End Levee Mile	0.22
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the pruning along the levee.

rduffey_s_20120312_428.jpg



Levee Mile Report Line	7
Start Levee Mile	0.23
End Levee Mile	0.25
Location	Crown
Category	Earthen Levee
Item	Vegetation

View of cactus and pine trees along the land side toe.

rduffey_s_20120312_429.jpg



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	05/02/2012 05/03/2012	Bob Duffey

Levee Mile Report Line	8
Start Levee Mile	0.62
End Levee Mile	0.65
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the concrete ditch on the waterside slope.

rduffey_s_20120312_431.jpg



Levee Mile Report Line	9
Start Levee Mile	0.88
End Levee Mile	0.88
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the W/S toe.

rduffey_s_20120507_626.jpg



Levee Mile Report Line	10
Start Levee Mile	1.23
End Levee Mile	1.24
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the concrete canal.

rduffey_s_20120312_430.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	1.75	05/02/2012 05/03/2012	Bob Duffey

Levee Mile Report Line	11
Start Levee Mile	1.67
End Levee Mile	1.67
Location	Water Side
Category	Channels
Item	Erosion / Bank Caving

View of the erosion along the channel.

rduffey_s_20120312_432.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Sutter Maintenance Yard East-West Interceptor

Waterway			Bank	Unit Miles
Unit No. 02 East Levee			Left	3.01
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/1/2012 - 5/1/2012			
DWR Inspector	Bob Duffey			
Accompanied By	Steve Beckley Sutter Yard			

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard East-West Interceptor

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee						Left	3.01	05/01/2012 05/01/2012	Bob Duffey

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.00	0.26	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.171116 ° -121.726501 °	39.171101 ° -121.721857 °	11 Y
DWR ID: DWR_NA0020_02_s_2012_11										
2	0.25	0.25	Earthen Levee	Encroachments	WS	M En	GA : Garbage Inspector Comments: Tires	39.171107 ° -121.722069 °	39.171107 ° -121.722069 °	12 Y
DWR ID: DWR_NA0020_02_s_2012_12										
3	0.26	0.26	Earthen Levee	Encroachments	LS	M En	DE : Debris	39.171101 ° -121.721856 °	39.171101 ° -121.721856 °	9 Y
DWR ID: DWR_NA0020_02_s_2012_9										
4	0.55	1.55	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.171002 ° -121.716293 °	39.170817 ° -121.698202 °	1 Y
DWR ID: DWR_NA0020_02_s_2012_1										
5	0.55	2.72	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.171002 ° -121.716293 °	39.170507 ° -121.676212 °	2 Y
DWR ID: DWR_NA0020_02_s_2012_2										
6	1.43	1.55	Earthen Levee	Encroachments	LS	M Ma	DE : Debris	39.170782 ° -121.700167 °	39.170817 ° -121.698203 °	3 Y
DWR ID: DWR_NA0020_02_s_2012_3										
7	1.54	1.93	Earthen Levee	Erosion / Bank Caving	WS	M Ma	E1 : Note and monitor erosion site.	39.170800 ° -121.698105 °	39.170702 ° -121.690788 °	4 Y
DWR ID: DWR_NA0020_02_s_2012_4										
8	1.92	2.04	Earthen Levee	Encroachments	LS	M Ma	EQ : Equipment	39.171104 ° -121.718880 °	39.171104 ° -121.718876 °	5 Y
DWR ID: DWR_NA0020_02_s_2012_5										
9	1.95	1.98	Earthen Levee	Erosion / Bank Caving	LS	M Ma	E1 : Note and monitor erosion site.	39.170775 ° -121.691252 °	39.170775 ° -121.691255 °	6 Y
DWR ID: DWR_NA0020_02_s_2012_6										
10	2.63	2.63	Earthen Levee	Encroachments	LS	M Ma	GA : Garbage	39.170543 ° -121.677402 °	39.170543 ° -121.677402 °	8 Y
DWR ID: DWR_NA0020_02_s_2012_8										
11	2.71	2.71	Earthen Levee	Encroachments	LS	M Ma	MA : Material	39.170548 ° -121.675970 °	39.170548 ° -121.675970 °	10 Y
DWR ID: DWR_NA0020_02_s_2012_10										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.01	05/01/2012 05/01/2012	Bob Duffey

Levee Mile Report Line	2
Start Levee Mile	0.25
End Levee Mile	0.25
Location	Water Side
Category	Earthen Levee
Item	Encroachments

View of the tires along the W/S toe.

rduffey_s_20120507_624.jpg



Levee Mile Report Line	3
Start Levee Mile	0.26
End Levee Mile	0.26
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the debris along the L/S toe.

rduffey_s_20120507_623.jpg



Levee Mile Report Line	4
Start Levee Mile	0.55
End Levee Mile	1.55
Location	Land Side
Category	Earthen Levee
Item	Vegetation

View of the grasses and vegetation on both slopes.

rduffey_s_20120312_433.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.01	05/01/2012 05/01/2012	Bob Duffey

Levee Mile Report Line	6
Start Levee Mile	1.43
End Levee Mile	1.55
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the pile of broken concrete next to the levee.	
rduffey_s_20120312_434.jpg	



Levee Mile Report Line	7
Start Levee Mile	1.54
End Levee Mile	1.93
Location	Water Side
Category	Earthen Levee
Item	Erosion / Bank Caving
View of the erosion along the waterside slope.	
rduffey_s_20120312_435.jpg	



Levee Mile Report Line	8
Start Levee Mile	1.92
End Levee Mile	2.04
Location	Land Side
Category	Earthen Levee
Item	Encroachments
View of the equipment and buildings next to the landside berm.	
rduffey_s_20120312_436.jpg	



* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sutter Maintenance Yard East-West Interceptor

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 East Levee	Left	3.01	05/01/2012 05/01/2012	Bob Duffey

Levee Mile Report Line	9
Start Levee Mile	1.95
End Levee Mile	1.98
Location	Land Side
Category	Earthen Levee
Item	Erosion / Bank Caving

View of the erosion along the W/S slope.

rduffey_s_20120312_437.jpg



Levee Mile Report Line	10
Start Levee Mile	2.63
End Levee Mile	2.63
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of debris & garbage along the L/S toe.

rduffey_s_20120312_439.jpg



Levee Mile Report Line	11
Start Levee Mile	2.71
End Levee Mile	2.71
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of material, garbage & equipment along the L/S toe.

rduffey_s_20120312_440.jpg



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